

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY  
(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/GB2004/002353

International filing date (day/month/year)  
01.06.2004

Priority date (day/month/year)  
05.06.2003

International Patent Classification (IPC) or both national classification and IPC  
F03D9/00, F03D3/00, F03D3/02, F03D3/04, F03D3/06, H02K16/00, H02K7/18

Applicant  
INTEC POWER SYSTEMS LIMITED

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

**IDS DOCUMENT**

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3018

Authorized Officer

Angelucci, S

Telephone No. +31 70 340-4330



BEST AVAILABLE COPY

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

**1U/559589**  
**IAP9 Rec'd PCT/PTO 02 DEC 2009**  
International Application No.  
PCT/GB2004/002353

**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**BEST AVAILABLE COPY**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/GB2004/002353

**Box No. II Priority**

1. ☒ The following document has not been furnished:

- ☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

**Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	5-8
	No: Claims	1-3,9-15
Inventive step (IS)	Yes: Claims	5-8
	No: Claims	1-3,9-15
Industrial applicability (IA)	Yes: Claims	1-3,5-15
	No: Claims	

2. Citations and explanations

see separate sheet

**BEST AVAILABLE COPY**

**Re Item V.**

- 1 The following documents are referred to in this communication:  
D1 : GB 2 341 646 A (SHERIDAN BERNARD JOHN) 22 March 2000 (2000-03-22)  
D2 : US 3 697 765 A (CARINI EUGENE P) 10 October 1972 (1972-10-10)  
D3 : US 4 061 926 A (PEED PAUL V) 6 December 1977 (1977-12-06)  
D4 : US 6 172 429 B1 (RUSSELL THOMAS H) 9 January 2001 (2001-01-09)

**2 INDEPENDENT CLAIM 1**

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parenthesis applying to this document; see figures):

A generator for generating an electric current comprising current generating means comprising first generator means (10) and second generator means (19) arranged to generate electric current in response to relative rotation between said first and second generator means (10, 19);  
a first rotary part (20) having vanes (21), said first rotary part arranged to rotate in a first direction around an axis when exposed to a flow of air perpendicular to said axis; said first rotary part operatively connected to a first (19) of said first and second generator means; and  
said axis is through an axial shaft about which said rotary part is arranged to rotate, wherein,  
said axial shaft is configured to receive electrical connection means (14b) therethrough, said electrical connection means configured to provide an electrical connection between said current generating means and generator electrical means (see also page 3 lines 23-27).

- 2.2 Furthermore documents D2-D4 show a generator for generating an electrical current having the technical features of at least claim 1. These documents are novelty destroying for the subject matter of claim 1 (Article 33(2) PCT).

**3 DEPENDENT CLAIMS 2, 3, 9-15**

**BEST AVAILABLE COPY**

Dependent claims 2, 3, 9-15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty (Article 33(2) and (3) PCT); see documents D1-D4 and the corresponding passages cited in the search report.

**4 DEPENDENT CLAIMS 5-8**

Dependent claims 5-8 are new and inventive (Article 33(2) and (3) PCT).

The combination of the features of dependent claim 5 shows a generator wherein the axial shaft comprises sections each releasably engageable with at least one other section. This feature facilitates the transport, construction, and maintenance of the wind powered generator and facilitates the replacement of a section or component thereof.

**BEST AVAILABLE COPY**

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F03D9/00 F03D3/00 F03D3/02 F03D3/04 F03D3/06  
H02K16/00 H02K7/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F03D H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 341 646 A (SHERIDAN BERNARD JOHN) 22 March 2000 (2000-03-22) cited in the application page 3, line 23 - line 27 figures	1-3,9, 11-15
X	US 3 697 765 A (CARINI EUGENE P) 10 October 1972 (1972-10-10) column 2, line 63 - line 65 column 2, line 66 - column 3, line 2 column 4, line 5 - line 7 figures	1,2,9, 11,12,15
X	US 4 061 926 A (PEED PAUL V) 6 December 1977 (1977-12-06) figures 1-3	1,2,10, 11,15
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

10 September 2004

Date of mailing of the international search report

21/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Angelucci, S



C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 172 429 B1 (RUSSELL THOMAS H) 9 January 2001 (2001-01-09) figures 2,3,8 -----	1,2,11, 13,15